88888888888888888888888888888888888888	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	\$	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR		
				TTT	
88888888888888888888888888888888888888	AAA AAA	\$	RRR RRR RRR RRR RRR RRR	††† ††† †††	

....

....

וווווו

88888888 88888888 88 88	AAAAAA AAAAAA	\$\$\$\$\$\$\$\$\$ \$
88 88 88 88 88888888 88888888 88 88	AA AA AA AA AA AA AA AA AAAAAAAAA	\$\$ \$\$ \$\$ \$\$ \$\$\$\$\$\$\$ \$\$\$ \$\$\$
88 88 88 88 88888888 88888888	AA AA AA AA AA AA	\$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$
	HIIII	\$\$\$\$\$\$\$\$\$ \$
		\$\$ \$\$ \$\$ \$\$ \$\$ \$\$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$
		\$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$

FILEID**BASPOWHJ

; BASIC hfloat ** longword routine 15-SEP-1984 23:59:57 VAX/VMS Macro V04-00 BAS\$POWHJ Table of contents DECLARATIONS BASSPOWHJ - BASIC hfloat ** long (2) (3) 47 82

Page 0

0000

0000 0000 0000

42

15-SEP-1984 23:59:57 VAX/VMS Macro V04-00 6-SEP-1984 10:34:20 [BASRTL.SRC]BASPOWHJ.MAR;1

Page 1

.TITLE BASSPOWHJ .IDENT /1-002/

; BASIC hfloat ** longword routine ; File: BASPOWHJ.MAR Edit:PLL1002

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: FACILITY: Basic Support Library

ABSTRACT:

This module contains entry points to support exponentiation (** or ^) in BASIC-PLUS-2 for hfloat ** LONGWORD.

ENVIRONMENT: User Mode, AST Reentrant

AUTHOR: P. Levesque , CREATION DATE: 5-Oct-81

MODIFIED BY:

1-001 - Original 1-002 - Fix some typos (wrong OTS\$ name). PLL 7-Oct-81

.PSECT _BASSCODE PIC, USR, CON, REL, LCL, SHR, - EXE, RD, NOWRT, LONG

.MASK OTS\$POWHJ_R3

G^OTS\$POWHJ_R3+2

base(AP)

BAS\$POWHJ::

TSTH

BLEQ

Entry point Since this routine uses no

registers and usually transfers control to OTS\$POWHJ, we copy its register save mask and then JMP past its save mask and only save the registers once

Test base relationship to zero

Transfer control to the OTS\$

If base leq 0, do case analysis

0000

04 AC 73FD

06 00000002 GF

.END

E 13

BAS\$POWHJ Symbol table	; BAS	IC hfloat **	longword ro	F 13 utine 15	-SEP-1984 23 -SEP-1984 10	:59:57 VAX/VMS :34:20 [BASRTL.	Macro VO4-00 SRCJBASPOWHJ.MAR;1	Page (
BAS\$\$STOP BAS\$K DIVBY_ZER ************************************	* X 00 00 RG 01							
EXPONENT = 0000001	4							
		!	Psect synop	sis!				
PSECT name . ABS . BASSCODE	000000 000000	000 (0.	PSECT No.		CON ABS	LCL NOSHR NOEX		BYTE
		! Pe	rformance in	dicators!				
Phase Initialization Command processing Pass 1 Symbol table sort Pass 2 Symbol table output Psect synopsis output Cross-reference output Assembler run totals	Page faults 31 131 70 0 46 2 2 0 284	CPU Time 00:00:00. 00:00:00. 00:00:00. 00:00:00. 00:00:00. 00:00:00. 00:00:00.	51 00:00: 47 00:00: 00 00:00: 31 00:00: 01 00:00: 02 00:00:	00.37 01.90 01.01 00.00 00.66 00.01 00.02 00.00				
The working set limit wa 1894 bytes (4 pages) of There were 10 pages of s 177 source lines were re 0 pages of virtual memor	virtual memory symbol table sp ad in Pass 1.	producing 8	ed to hold 6 object reco	e intermediate non-local and rds in Pass 2.	code. 5 local sym	bols.		
		Mac	ro library s	tatistics !				
Macro Library name		Macr	os defined					

0

\$255\$DUA28:[SYSLIB]STARLET.MLB;2

O GETS were required to define O macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL, TRACEBACK)/LIS=LIS\$:BASPOWHJ/OBJ=OBJ\$:BASPOWHJ MSRC\$:BASPOWHJ/UPDATE=(ENH\$:BASPOWHJ)

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